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CURRICULUM VITAE (ENGLISH)

MAXIMILIAN IGNACIO WILLEMBRINCK SANTANDER

PROFILE I hold a PhD in Computer Science from the University of Lille, and am currently looking for a senior position in software development. With over 14 years of experience in multiple disciplines in the field of computer science, I have primarily focused on research, development, and innovation. My professional expertise lies in system software development, graphics tools engineering, and 3D applications specialization. In recent years, I have worked as a researcher on debugging tools. I relocated to France in 2018, and I am eager to advance my career in this new environment.

RECENT WORK EXPERIENCE **3D COMPUTER GRAPHICS SPECIALIST, IQS (INTERNATIONAL QUALITY SYSTEMS) (Chile, remote work)**
February 2024 – To date.

I currently work enhancing a 3D web application and the underlying 3D engine, implementing new specialized visual features according to the client's needs. The work includes writing shaders and tools for a cad-like web application based on the *Three.js* framework.

Technical concepts: 3D, Shaders, High Performance, Real-Time Rendering, GLS, Javascript

RESEARCHER AND DOCTORAL STUDENT, INRIA AND UNIVERSITY OF LILLE (France)

October 2020 – November 2023.

I worked as a researcher debugging specialist in the team Evref, at Inria, during PhD studies.

Development of prototype time-traveling debuggers for Pharo programming language.

Details on research, publications and awards, available at: <https://www.willembrinck.com>

Technical concepts: Pharo, Smalltalk, Debugging, Continuous Integration

SOFTWARE ENGINEER, OLEA-MEDICAL (CANON MEDICAL SYSTEMS) (France)

September 2019 – September 2020.

I worked on software for cutting-edge latest Canon / Olea Medical products, mainly targeting intelligent MRI & CT imaging applications. Strong emphasis in team and work organization, code quality, automated testing, and a robust design-and-development workflow.

PAST WORK EXPERIENCE (SUMMARY)

EXPERIENCED SOFTWARE DEVELOPER WITH EXPERTISE IN DIVERSE TECHNOLOGIES

2010 – 2019

With many years of experience in software development, I have designed and developed a wide range of applications for industries including mining, education, healthcare, and industrial inspection. My expertise spans from creating advanced 3D visualization tools using Unity and OpenGL to developing statistical web platforms and telemedicine solutions. I am proficient in Python, VB.Net, C#, and C++, with strong skills in both desktop and web development using frameworks like ASP.Net MVC and tools such as Matplotlib, PyQt5, and WebRTC. My work emphasizes system interoperability, high-performance computing, cutting-edge technologies, and user-friendly design. Most of these works were performed as freelance. More details are available on demand.

ACADEMIC FORMATION	2020-2023 DOCTORATE		
	Doctorate in Informatics at the University of Lille, France. Thesis title: <i>An Interactive debugging approach based on Time-traveling Queries</i> . 1st place in the Innovation Technology Awards 17th Edition at Esug 2022, Novi Sad, Serbia. Best poster award at <i>Journées Nationales du Génie de la Programmation et du Logiciel</i> 2022, Jun 2022, Vannes, France.		
	2010-2015 POSTGRADUATE Ingeniero Civil en Computación (<i>Computer Science Engineering</i>), Universidad de Chile. Graduated with Maximum Distinction		
TECHNICAL KNOWLEDGE	2005-2010 UNDERGRADUATE Licenciado en ciencias, mención computación - Universidad de Chile.		
	PROGRAMMING .Net, .Net Core, and .Net Framework (VB.Net, C#, C++/CLI, Asp.Net MVC), C++(03-17), Python, Java, PHP, JavaScript, Pharo, Smalltalk, RESTful back ends		
	DATABASES AND WEB MySQL, SQL Server. HTML 5, CSS3, JQuery, Ext JS, CakePhp Framework		
CERTIFICATIONS	COMPUTER GRAPHICS GLSL, Unity, Unity Shading Language, Threejs, OpenGL 2.0, OpenGL 3.0,		
	MICROSOFT CERTIFIED PROFESSIONAL Verifiable at: https://learn.microsoft.com/en-us/users/maxwillembrincks-5077/transcript/7669zuzek1mnmnq		
	1. MCSA: WEB APPLICATIONS A56TF8-E4AC15 - October 2016 2. MICROSOFT CERTIFIED SOLUTIONS DEVELOPER: WEB APPLICATIONS (INACTIVE) 758245-504DBF - June 2014 3. MICROSOFT CERTIFIED PROFESSIONAL DC8946-914W95 - April 2014 4. MICROSOFT SPECIALIST: PROGRAMMING IN HTML5 WITH JAVASCRIPT AND CSS3 2E3HD0-789354 - April 2014		
LANGUAGES	SPANISH Native	ENGLISH Fluent	FRENCH Advanced (Avancé C1)
GITHUB	PROFESSIONAL (RESEARCH PUBLICATIONS) https://github.com/willembinck PERSONAL (PROTOTYPES) https://github.com/maxwills		
REFERENCES	MR. STEVEN COSTIOU - THESIS SUPERVISOR INRIA, LILLE, FRANCE 2020 - 2023 steven.costiou@inria.fr +33 3 59 35 87 45 LANGUAGES: FRENCH AND ENGLISH.		
	MR. THOMAS SAUZEDDE - SOFTWARE ARCHITECT / TEAM LEADER OLEA-MEDICAL (CANON MEDICAL SYSTEMS) 2019 - 2020 Contact information to be delivered on demand. Languages: French and English.		